



Tesoro Alaska Company LLC

Kenai Refinery
54741 Tesoro Road
Kenai, AK 99611
Tel: 907-776-8191

April 11, 2022

Pete Campbell
Environmental Specialist.
Alaska Department of Environmental Conservation
43335 K-Beach Road, Suite 11
Soldotna, Alaska 99669

Submitted via email:
Peter.Campbell@alaska.gov

**Re: Treated Groundwater Injection Permit
Quarterly Report**

Dear Mr. Campbell:

Enclosed is the report for Tesoro's Kenai Refinery groundwater remediation system for January 1 through March 31, 2022. This data is to be submitted on a quarterly basis required by the Treated Groundwater Injection Plan.

The Treated Groundwater Injection Plan was revised and approved by the Alaska Department of Environmental Conservation, Contaminated Sites Program (ADEC), on October 31st 2017. As per the revised plan, Trihydro Corporation supplied a Qualified Environmental Professional (QEP) to collect and report the required data.

If you have any questions, please contact me at (907) 776-2090.

Sincerely,

Stephanie Plate, PE
Environmental Engineer

Enclosure (1)



**JANUARY, FEBRUARY, MARCH 2022
TREATED GROUNDWATER REPORT
PREPARED FOR TESORO ALASKA COMPANY, LLC**

April 1, 2022

Project #: 39B-003-008

SUBMITTED BY: Tesoro Alaska Company, LLC

54741 Tesoro Road, Kenai, AK 99611

PREPARED BY: Trihydro Corporation

312 Tyee Street, Soldotna, AK 99669

ENGINEERING SOLUTIONS. ADVANCING BUSINESS.

CERTIFICATION STATEMENT
JANUARY, FEBRUARY, MARCH 2022
TREATED GROUNDWATER REPORT
PREPARED FOR TESORO ALASKA COMPANY, LLC

I certify that the work presented in this report was performed by me or under my supervision. To the best of my knowledge, the data contained herein are true and accurate and the work was performed in accordance with professional standards.



Date: 4/01/2022

Brianna Force, Project Manager
Qualified Environmental Professional in accordance with 18 AAC 75.333



Introduction

This report summarizes the treated groundwater activities for the first quarter of 2022 (January, February, and March) at the Marathon Kenai Refinery as required by Treated Groundwater Injection Plan.

Marathon Kenai Refinery is permitted to inject treated water from two treatment systems including: 1) the PM Tray Strippers (inactive) injected to a trench injection system (PM), and 2) the Calgon Granular Activated Carbon (GAC) Treatment injected into a series of injection wells (Calgon).

Results Summary

The PM system is inactive; therefore, all groundwater continues to be diverted to the Calgon treatment system. Samples were collected monthly from the Calgon treatment system effluent and analyzed for the constituents listed on Table 1. The Calgon effluent samples were all below criteria for benzene and non-detect for all other constituents. All Calgon system flow limits and effluent concentrations were below ADEC criteria for the quarter. The latest carbon replacement occurred on September 29, 2021.

Table 1 summarizes flow and sample results for the Calgon treatment system

TABLE 1. TREATED WATER FLOW AND EFFLUENT ANALYTICAL RESULTS
MARATHON KENAI REFINERY
JANUARY, FEBRUARY, MARCH 2022

<u>Calgon Unit</u>		JANUARY	FEBRUARY	MARCH
	Limit			
Total Flow (gpd)*	1,000,000	126,720	167,040	218,880
Sample Collection Date		1/24/2022	2/8/2022	3/7/2022
Effluent Limits (µg/L)				
Benzene	4.6	1.36	1.15	0.753
Toluene	1,100	U (1.0)	U (1.0)	U (1.0)
Ethylbenzene	15	U (1.0)	U (1.0)	U (1.0)
Total Xylenes	190	U (3.0)	U (3.0)	U (3.0)
n-Butylbenzene	1,000	U (1.0)	U (1.0)	U (1.0)
sec-Butylbenzene	2,000	U (1.0)	U (1.0)	U (1.0)
tert-Butylbenzene	690	U (1.0)	U (1.0)	U (1.0)
Isopropylbenzene(cumene)	450	U (1.0)	U (1.0)	U (1.0)
Napthalene	1.7	U (1.0)	U (1.0)	U (1.0)
1,2,4-Trimethylbenzene	15	U (1.0)	U (1.0)	U (1.0)
1,3,5-Trimethylbenzene	120	U (1.0)	U (1.0)	U (1.0)

µg/L - micrograms per liter

U - Non-Detectable at (detection limit)

gpd- gallons per day

*Flow at time of sample collection

Bolded results are above ADEC standards